

# BIBLIOGRAPHY ON PLANT PROTECTION IN INDIA



*Compiled by*

D.B. REDDY

PLANT PROTECTION SPECIALIST, EXTENSION DIRECTORATE

T. S. RAJAGOPALAN

CHIEF LIBRARIAN, INDIAN COUNCIL OF AGRICULTURAL RESEARCH

M. R. PANIKKAR

AGRICULTURAL OFFICER, INDIAN COUNCIL OF AGRICULTURAL RESEARCH

INDIAN COUNCIL OF AGRICULTURAL RESEARCH  
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## Foreword

Plant protection is as old as Agriculture. When farming evolved through food-gathering, hunting and pastoral stages to stabilise in sedentary agriculture, the factors such as external and internal enemies of crops limiting the enterprise were also taken notice of. More often than not, pests and diseases particularly in sudden epidemics were considered as the outcome of divine displeasure. Evidences are not, at the same time, lacking that plant protection measures and that too in the form of fungicidal and insecticidal treatments were practised even in Vedic age and near about.

Plant protection in the modern sense of the term is, however, a later development. During the recent decades, several aspects of plant protection have made tremendous progress particularly in the wake of new findings in biological and chemical sciences. Improved tools and techniques in finding out plant maladies and the most effective way of remedying them have also opened up new horizons. Perhaps, this is one of the greatest contributions of modern science to humanity for conservation of natural resources.

Corresponding to the growing importance of the subject, the volume of literature pouring out of the researches is massive and continuous. While the existing techniques of plant protection are being sought to be perfected, stranger and more virulent enemies are also cropping up, calling for eternal vigilance and change of strategy and technique. The cycle goes on taxing the ingenuity of plant protection workers, resulting in a plethora of records of experiences and findings.

For an ardent student seeking information on a particular aspect of plant protection, this avalanche of literature would be a nightmare, unless he is helped and given guidance to the various sources of information. A classified bibliography, therefore, fulfils in a great measure this need. This bibliography on Plant Protection is fairly comprehensive in its coverage and refers only to the work done in India. About 2,500 documents are listed in the bibliography and the detailed classified sequence is its distinctive feature.

It has been the practice with us for some time now to bring out bibliographies during Conferences and Seminars. The present work is yet another attempt in this direction and Sarvashri Reddy, Rajagopalan and Panikkar deserve to be complimented for bringing out this useful bibliography.

J. S. PATEL

I.C.A.R. New Delhi  
April 22, 1964

AGRICULTURAL COMMISSIONER  
WITH THE GOVERNMENT OF INDIA

# Introduction

The Indian Council of Agricultural Research is organising an All India Seminar on Plant Protection from the 22nd April 1964 to the 28th April 1964. On this occasion the Council is bringing out a bibliography on Plant Protection with reference to India.

Organised plant protection activity in our country, especially on field scale received impetus only after the World War II. Considerable amount of literature began to be published thereafter as would be evident from the listing in this bibliography of a very large number of entries published near about 1950 and onwards. The compilers had initially desired to attempt an exhaustive bibliography on the subject but some practical considerations have subsequently imposed on them to make the bibliography a selective one. The subject of Plant Protection deals with the diverse aspects such as the control of diseases, insect pests, weeds, deficiency diseases, weather hazards etc. and the volume of published literature on each of them is not equal and it was difficult to maintain a balance of coverage.

While most of the contributions on plant diseases, insects and other pests and weeds may touch upon control aspects as well, in this bibliography an attempt is made to list those articles wherein only a substantial portion dealt with practical and field control measures. Mostly those articles the titles of which clearly indicated that the control aspects were also dealt with have been included as it has not been possible to read every reference on the subject. In addition to periodical literature an attempt has been made to cover books, proceedings of conferences and

seminars, bulletins, leaflets, acts, standard specifications, etc.

The distinctive feature of this bibliography is the detailed classified listing of the entries. The table of contents indicates the scheme of classification followed. The earlier sections list references on plant protection problems in general which cover diseases caused by bacteria, viruses and fungi and insects and other pests, weeds, deficiency diseases etc. including their control. The latter sections list references dealing with specific crops. The crops have been broadly grouped on the basis of their utility. While in the ultimate class, the references are arranged alphabetically by the name of the authors, some deviations have been made at certain places to bring together references dealing with a particular disease or a pest. The references which are multifocal in their contents, i.e. dealing with more than one crop/malady/control measure could be entered only under one heading—the one in which the contribution deals with substantially. If some entries are not found under the headings sought, it may become necessary to refer to other possible headings under which such entries could be classed. However, it is hoped, that the classified presentation of entries will enhance the usefulness of the bibliography for finding out readily and with ease the published information on the different aspects of the subject of Plant Protection.

The compilers wish to record their grateful thanks to Dr. J. S. Patel, Agricultural Commissioner with the Government of India for encouragement.

New Delhi  
April 22, 1964

D. B. Reddy  
T. S. Rajagopalan  
M. R. Panikkar

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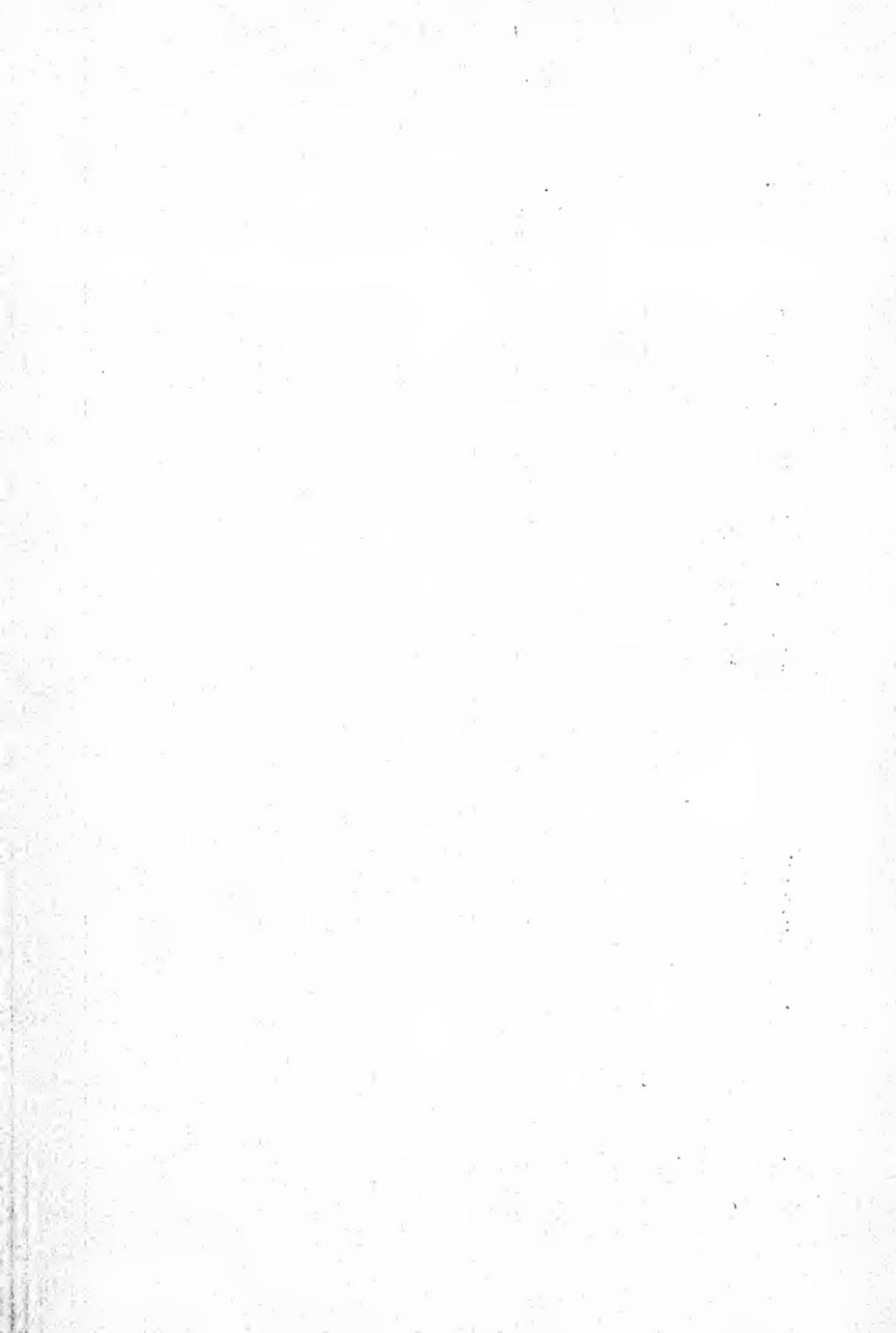
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